

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : John C. Harvey and  
James W. Cuddihy

Serial No. : 08/447,447

Docket No. : 5634.0140

Filed : May 23, 1995

For : SIGNAL PROCESSING APPARATUS AND METHODS

Group Art Unit : 2699

Examiner : FAILE, A.



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4-24-02  
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**Box: FEE-AMENDMENT**  
Commissioner for Patents  
Washington, D.C. 20231

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, Applicants respectfully request consideration of the references listed on the attached Form PTO-1449.

Applicants respectfully request that the Examiner consider the references cited on the PTO-1449 and that the Examiner indicate that the references have been considered in this application by returning a copy of the Form PTO-1449 with the Examiner's initials in the left column per M.P.E.P. § 609.

**I. Description of the References**

The references identified in this Supplemental Information Disclosure Statement ("Supplemental IDS") can be grouped into two categories. *First*, applicants have identified in this Supplemental IDS references made of record in applicants' related applications that have not previously been made of record in the instant case.

*Second*, this Supplemental IDS identifies two new references that have not previously been identified in this application or any other related applications to date. These two new references are Japanese references that came to applicants' attention during the prosecution of applicants' applications pending in Japan. These new references are: JP 59-224988 and JP 61-174889.

## **II. Description of Corrections**

In the course of preparing this Supplemental IDS applicants identified a number of miscellaneous inadvertent clerical errors contained in previously filed information disclosure statements. Applicants have corrected any such inadvertent errors with respect to references that are identified in this Supplemental IDS. With respect to inadvertent errors that occurred in information disclosure statements previously filed in this application applicants' identify and correct such inadvertent errors as follows:

- In the May 11, 2001 Information Disclosure Statement, the foreign patent reference previously identified as JP 59-50134 is correctly identified as JP 59-501340. Also in the May 11, 2001 Information Disclosure Statement, the foreign patent reference FR 79-03351 identifies the French application number. The correct identification of this reference is publication number FR 2,417,226.
- With respect to foreign patent references in various information disclosure statements, information regarding the publication dates of these references may not have been supplied or may have been incorrectly identified. Additionally, applicants made inadvertent errors with respect to the provision of translations for certain foreign language references. A

corrected complete list of all foreign references made of record in applicants' related pending applications is identified in Appendix A.

- Applicants' Information Disclosure Statement filed on April 7, 1997 contained a number of inadvertent errors. This Supplemental IDS corrects errors in the April 7, 1997 document. Accordingly, the April 7, 1997 IDS should be withdrawn from consideration and this Supplemental IDS should be substituted for the April 7, 1997 IDS.

### **III. Concise Explanations of Foreign Language References**

Applicants unintentionally may not have provided concise explanations for certain previously identified foreign language references. Concise explanations for these references are provided in Appendix B. Additionally, in Appendix B applicants provide concise explanations for the two new Japanese references cited for the first time in this Supplemental IDS.

Applicants' submission of Appendix B meets the requirements regarding a concise explanation of foreign references as set forth in 37 CFR 1.98 and M.P.E.P. § 609.

### **IV. Conclusion**

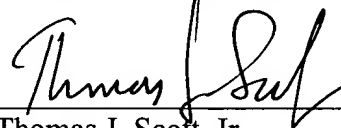
Pursuant to an agreement reached between the Examiner and applicants (see first Office Action issued in this application), applicants are not submitting copies of the references cited in this Supplemental IDS where applicants have previously provided copies of all of the references cited herein in related applications. Applicants are presently providing newly acquired translations of three Japanese patent applications, 58-99817, 56-84340 and 58-29020 in applicants' application number 08/113,329, pursuant to the same agreement mentioned above.

This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance. 37 C.F.R. § 1.97(c).

Submitted herewith is a check in the amount of \$180.00 to cover the fee for filing this Supplemental Information Disclosure Statement under 37 C.F.R. § 1.17(p). Any deficiency in or overpayment of this fee should be charged or credited to Deposit Account No. 50-0206.

Date: March 19, 2002  
**HUNTON & WILLIAMS**  
1900 K Street, N.W.  
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Respectfully submitted,



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# APPENDIX A

## FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION NO	YES
20,242	12/10/80	EPO	G09G 1/16	X	
46,108	02/17/82	EPO	H04N 5/76	X	
49,184	04/07/82	EPO	G09B 7/08	X	
53,984**		Japan		X	
55,167	06/30/82	EPO	G09G 1/16	X	
55,674	07/07/82	EPO	07/07/82		
56,649	07/28/82	EPO	H04N 5/44		
481,565	04/29/76	Australia			
77,712	04/27/83	EPO	H04N 7/00	X	
78,185	05/04/83	EPO	H04N 7/00	X	
103,438	03/21/84	EPO	H04N 7/10		
128,481	12/19/84	EPO	H04N 7/00		
132,007	01/23/85	EPO	H04N 7/16		
133,985	03/13/85	EPO	H 04 N 7/087		
152,251	08/21/85	EPO	H04H 1/2		
187,417	07/16/86	EPO	H04 N 7/087		
206,821	12/30/86	EPO	H04N 7/00		
217,308	04/08/87	EPO	H04M 11/00		
857,862	1/61	Great Britain	40 (1)		
959,274	05/27/64	Great Britain			
1,066,931	04/26/67	Great Britain	G 07c		
1,189,612	06/25/85	Canada	Ho4n 7/08		
1,204,190	09/03/70	Great Britain			
1,213,357	11/25/70	Great Britain			
1,216,977	01/20/87	Canada	HO4M 11/00		
1,370,535	10/16/74	Great Britain	GO9G1/16		
1,396,981	06/11/75	Great Britain	H04H 1/00		
1,515,309	06/21/78	Great Britain	G06 K 15/20		
1,523,307	08/31/78	Great Britain	H03K 5/08		
1,543,502	04/04/79	Great Britain	G08B9/00		
1,554,411	10/17/79	Great Britain	H04b 3/54		
1,556,366	11/21/79	Great Britain			
1,582,563	01/14/81	Great Britain	G08B9/00		
1,584,111	02/04/81	Great Britain	G08B9/00		
2,016,874	02/01/79	Great Britain			
2,033,699	05/21/80	Great Britain	H04L 1/10, 1/40		
2,034,995	06/11/80	Great Britain	H03J 7/18, 5/00		

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION NO	YES
2,051,527	01/14/81	Great Britain	G06F 3/153		
2,058,681	06/15/72	Germany	H04N 7/08	X	
2,067,379	07/22/81	Great Britain	H04L 1/24		
2,081,948	02/24/82	Great Britain	H04Q 9/00		
2,090,504	07/07/82	Great Britain	H04N 3/16		
2,103,455	02/16/83	Great Britain	H04N 1/00 7/12		
2,126,002	03/14/84	Great Britain	G11B 15/02		
2,140,963	12/05/84	Great Britain			
2,141,897	01/03/85	Great Britain	H04N 7/16		
2,164,229	03/12/86	Great Britain			
2,167,917	06/04/86	Great Britain			
2,185,670	07/22/87	Great Britain	H04N 7/087		
2,338,380	02/13/75	Germany		X	
2,356,969	05/22/75	Germany			X
2,417,226	02/01/79	France		X	
2,453,441	05/13/76	Germany	H04L 9/00	X	
2,496,376	06/18/82	France	H04N 7/00	X	
2,516,733	05/05/83	France	H04N 7/00	X	
2,550,624	05/26/77	Germany		X	
2,823,175	11/29/79	Germany	G06F 3/12	X	
2,831,014	04/03/80	Germany		X	
2,853,764	01/29/81	Germany		X	
2,904,891	08/16/79	Germany			X
2,918,846	11/13/80	Germany	F26B 12/02		X
3,020,787	12/17/81	Germany	H04N 7/08	X	
3,039,949	05/06/82	Germany	H04M 3/42	X	
3,112,249	10/07/82	Germany	G09G 1/28	X	
3,143,627	05/11/83	Germany			X
3,337,204	04/25/85	Germany	H04N 5/44	X	
53-068124	06/17/78	Japan			X
53-11515	02/02/78	Japan		X	
53-121420	10/23/78	Japan		X	
55-028691	02/29/80	Japan			X
55-26792	02/26/80	Japan		X	
55-49084	04/08/80	Japan			X
55-500886	10/30/80	Japan		X	
55-79585	06/16/80	Japan		X	
56-47179	04/28/81	Japan			X
56-51161	05/08/81	Japan			X
57-199377	12/07/82	Japan			X
58-156279	09/17/83	Japan		X	

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS/ SUBCLASS	TRANSLATION NO	YES
58-209276	12/06/83	Japan			X
59-154886	09/03/84	Japan			X
59-160387	09/11/84	Japan	H04N 7/10		X
59-224988	12/17/84	Japan			X
59-501340	03/23/84	Japan		X	
60-123182	07/01/85	Japan			X
60-146587	08/02/85	Japan		X	
60-149281	08/06/85	Japan		X	
60-256289	12/17/85	Japan	H04N 7/173		X
60-61935	04/09/85	Japan	G11B15/02	X	
61-148988	07/07/86	Japan	H04N 7/173		X
61-174889	08/06/86	Japan		X	
61-20441	01/29/86	Japan		X	
61-267474	11/27/86	Japan		X	
61-50470	03/12/86	Japan	H04N 5/44	X	
PL 204,525	02/09/78	Poland		X	
WO 80/00292	02/21/80	PCT Appl.	H04N9/16	X	
WO 80/02093	10/02/80	PCT Appl.	H04B 1/20		
WO 80/02901	12/24/80	PCT Appl.	H04N 7/16	X	
WO 81/02961	10/15/81	PCT Appl.	H04N 7/16, 7/04		
WO 83/00789	03/03/83	PCT Appl.	H04N 7/08	X	
WO 85/03604	08/15/85	PCT Appl.	H03K 3/84		
WO 85/03830	08/29/85	PCT Appl.	H04N 7/16		
WO 87/04884	08/13/87	PCT Appl.	H04M 11/08		

\*\* Japanese reference 53,984 to Jinno was cited by the Examiner in Application No. 08/470,447. The Examiner did not supply a publication date and applicants have been unable to determine a publication date for this reference.

**APPENDIX B**

**Concise Explanations for Foreign References**

**JP 61-174889            August 6, 1986            Japan**

Foreign language patent JP 61-174889 came to applicants' attention during the prosecution of applicants' applications pending in Japan.

**FR 2,417,226            February 1, 1979            France**  
**PL 204,525            February 9, 1978            Poland**

The French reference 2,417,226 and Polish reference PL 204,525 are both applications filed by Zaboklicki. The PTO has cited the German application filed by Zaboklicki which claims priority to the Polish Zaboklicki application. Translations of the German Zaboklicki application have been provided to the Examiner.

**DE 2,831,014            April 3, 1980            Germany**

The German reference DE 2,831,014 was applied by the Examiner in the September 4, 2001 Office Action in Application No. 08/487,526.

**JP 55-26792            February 26, 1980            Japan**

The Japanese reference JP 55-26792 was applied by the Examiner in the August 27, 2001 Office Action in Application No. 08/470,571.

**WO 80/02901            December 24, 1980            France**

The WO 80/02901 reference discloses a television system with a double key encryption service for subscription television.

**DE 3,337,204            April 3, 1980            Germany**

German reference DE 3,337,204 discloses a viewer interactive program schedule.



The following Japanese references were identified on applicants' on May 11, 2001 IDS, but explanations were unintentionally not provided. All of these applications came to applicants' attention during the prosecution of applicants' applications pending in Japan.

<b>JP 53-11515</b>	<b>February 2, 1978</b>	<b>Japan</b>
<b>JP 53-121420</b>	<b>October 23, 1978</b>	<b>Japan</b>
<b>JP 55-500886</b>	<b>October 30, 1980</b>	<b>Japan</b>
<b>JP 59-501340</b>	<b>March 23, 1984</b>	<b>Japan</b>
<b>JP 60-146587</b>	<b>September 2, 1985</b>	<b>Japan</b>
<b>JP 61-20441</b>	<b>January 29, 1986</b>	<b>Japan</b>
<b>JP 61-267474</b>	<b>November 27, 1986</b>	<b>Japan</b>

The following references were cited on PTO form 892 by the Examiners in applicants related pending applications.

<b>JP 58-156279</b>	<b>September 17, 1983</b>	<b>Japan</b>
<b>JP 55-79585</b>	<b>June 16, 1980</b>	<b>Japan</b>

**23 38 380      February 13, 1975      Germany**

This reference discloses television receivers that transmit control signals to a decoder/processor combination.

**61-050470      March 12, 1986      Japan**

This reference discloses a program engagement device that displays the program content at a television receiver and includes a display output control device.

**60-61935      April 9, 1985      Japan**

This reference discloses a system that generates, detects, communicates, and/or converts digital signals.

**2 058 681      June 15, 1972      Germany**

This reference discloses a television mode arrangement for transmitting, receiving, and presenting coded information.

**0 020 242      December 10, 1980      European**

This reference discloses a teletext character alignment process.

**0 046 108      February 17, 1982      European**

This reference discloses a integrated circuit interface between a television receiver and recorder.

**0 049 184      April 7, 1982      European**

This reference discloses a pocket teaching aid using a television receiver with a teletext system.

**0 055 167      June 30, 1982                      European**

This reference discloses a teletext CRT display for messages from a composite memory.

**0 077 712      April 27, 1983                      European**

This reference discloses a multi-channel digital packet television broadcasting system.

**0 078 185      May 4, 1983                                  European**

This reference discloses a digital packet broadcasting system using television transmissions.

**2 496 376      June 18, 1982                              France**

This reference discloses a teletext display of data on the television screen.

**2 516 733      May 5, 1983                                  France**

This reference discloses an error controller for a teletext television decoder.

**2 823 175      November 29, 1989                      Germany**

This reference discloses a teletext information display for television transmission.

**24 53 441      May 13, 1976                                  Germany**

This reference discloses a wideband signal transmission with digital to image signal conversion.

**DE 30339949   May 6, 1982                      Germany**

This reference discloses a method for the generation of teletext display having a color character contrast.

**DE 3112249    October 7, 1982                      Germany**

This reference discloses a processing signals from either a colored television receiver or from a video text decoder.

**DE 3020787    December 17, 1981                      Germany**

This reference discloses a television transmission system that sends extra data      during a blanking period.

**WO 80/00292**

**February 21, 1980**

**Japan**

This reference discloses a decoder for a television receiver that has a color component that splits signals and recombines the signals into a composite drive current signal.

**WO 83/00789**

**March 3, 1983**

**Japan**

This reference discloses an image display unit which displays received image signals via a memory, wherein the image signals include teletext displays of weather reports or television programs.

**Graf, P.H., "Antiope-Uebertragung fuer Breitbandige Videotex-Verteildienste," 1981.**

This reference shows an Antiope demodulator/detector.

**Heller, Arthur, "VPS - Ein Neues System Zuragsgesteuerten Programmanfzeichnung, Rundfunk technisde Mitteilungen, pp. 162-169.**


This reference discloses a decoding system for use with a VCR.

**Marti, B et al., Discrete, service de television cryptee, Revue de radiodiffusion - television (1975), pp. 24-30.**

This reference discloses an analog decryption system.

**Strauch, D., "(Las Media De Telecommunication Devant la Rapture. Les Nonvellas Methodes Presentees a L'Eposition International 1979 de Radio (Et Television)) 1979.**

This reference is a discussion of videotext, teletext, ceefax, oracle, and antiope.

	INFORMATION DISCLOSURE STATEMENT BY APPLICANT	
	Attorney Docket No.	Serial No.
	05634.0140	08/447,447
	Applicant(s) John C. Harvey and James W. Cuddihy	
Filing Date May 23, 1995		Group Art Unit 2699

CITATION FORM

UNITED STATES PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	1,992,271	02/26/35	Williams		09/17/31
	2,046,381	07/07/36	Hicks et al.	12/10/30	
	2,192,217	03/05/40	Bellamy, et al.	07/15/29	
	2,217,881	10/15/40	Allen		02/18/32
	2,236,077	03/25/41	Smith		05/29/30
	2,264,563	12/02/41	Bumstead		01/02/32
	2,418,127	04/01/47	Labin	178/44	
	2,563,448	08/07/51	Aram	178/5.1	
	2,570,209	10/09/51	Cotsworth, III	05/01/48	
	2,855,993	10/14/58	Rahmel	358/84	03/19/54
	2,995,624	08/08/61	Watters		03/11/59
	3,011,153	11/28/61	Haselton et al.	05/23/56	
	3,029,308	04/10/62	Adler et al.	09/22/58	
	3,071,649	01/01/63	Goodall	179/1.5	
	3,082,402	03/19/63	Scantlin		05/10/60
	3,107,274	10/15/63	Roschke	178/5.1	
	3,133,986	05/19/64	Morris et al.	178/5.1	
	3,251,051	05/10/66	Harries	340/345	
	3,366,731	01/30/68	Wallerstein	08/11/67	
	3,470,309	09/30/69	Nyberg	178/5.1	
	3,478,166	11/11/69	Reiter et al.	178/5.1	
	3,526,843	09/01/70	Sanville	329/104	
	3,546,684	12/08/70	Maxwell et al.	340/172.5	
	3,612,752	10/12/71	Banning, Jr.	178/5.1	06/22/66
	3,639,686	02/01/72	Walker et al.	178/5.8R	
	3,649,749	03/14/72	Gibson	178/5.6	
	3,651,261	03/21/72	Guanella	178/22	
	3,666,888	05/30/72	Sekimoto	178/69.5 TV	
	3,723,637	03/27/73	Fujio et al.	178/5.2R	
	3,746,799	07/17/73	Gentges	178/22	
	3,764,983	10/09/73	Stok	340/150	05/03/72
	3,769,579	10/30/73	Harney	325/31	
	3,773,979	11/20/73	Kirk, Jr. et al.	179/15 FD	
	3,778,058	12/11/73	Rausch	463/3	06/17/71
	3,778,721	12/11/73	Moran	325/396	09/08/72

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EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE
	3,789,131	01/29/74	Harney	178/5.1	
	3,794,922	02/26/74	Osborn et al.	325/53	
	3,795,763	03/05/74	Golding et al.	178/5.6	
	3,813,482	05/28/74	Blonder	178/5.1	
	3,826,863	07/30/74	Johnson	178/5.1	
	3,859,596	01/07/75	Jannery et. al.	325/31	
	3,882,289	05/06/75	Walding et al.	200/11 D	
	3,894,177	07/08/75	Howell et al.	178/5.6	
	3,896,262	07/22/75	Hudspeth et al.	178/5.1	
	3,896,266	07/22/75	Waterbury	179/1 SB	
	3,924,059	12/02/75	Horowitz	178/5.1	
	3,950,618	04/13/76	Bloisi	179/2 AS	
	3,958,081	05/18/76	Ehrsam et al.	178/22	
	3,975,585	08/17/76	Kirk, Jr. et al.	178/5.1	
	3,990,012	11/02/76	Karnes	325/308	
	3,996,586	12/07/76	Dillon et al.	340/347 DD	
	4,004,085	01/18/77	Makino et al.	340/324	
	4,013,875	03/22/77	McGlynn	235/150.2	
	4,015,286	03/29/77	Russell	358/13	
	4,019,201	04/19/77	Hartung et al.	358/124	
	4,020,419	04/26/77	Caspari et al.	325/421	
	4,024,575	05/17/77	Harney et al.	358/118	
	4,027,267	05/31/77	Larsen	329/106	
	4,027,331	05/31/77	Nicol	358/135	
	4,035,838	07/12/77	Bassani et al.	358/86	03/16/76
	4,044,376	08/23/77	Porter	358/84	
	4,045,814	08/30/77	Hartung et al.	358/124	
	4,059,729	11/22/77	Eddy et al.	179/15 BF	06/09/76
	4,061,879	12/06/77	Wintzer	179/15 BA	09/29/75
	4,070,693	01/24/78	Shutterly	358/123	
	4,075,660	02/21/78	Horowitz	358/124	
	4,081,754	03/28/78	Jackson	325/396	
	4,086,434	04/25/78	Bocchi	79/2 AM	
	4,088,958	05/09/78	Suzuki et al.	325/396	
	4,095,258	06/13/78	Sperber	358/120	
	4,096,542	06/20/78	Pappas et al.	361/196	
	4,107,734	08/15/78	Percy et al.	358/84	
	4,112,317	09/05/78	Everswick	307/308	
	4,112,383	09/05/78	Burgert	329/50	
	4,114,841	09/19/78	Muhlfelder et al.	244/166	
	4,124,887	11/07/78	Johnson et al.	364/107	

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EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE
	4,126,762	11/21/78	Martin et al.	179/2A	
	4,142,156	02/27/79	Freund	325/309	
	4,145,717	03/20/79	Guif et al.	358/121	
	4,156,253	05/22/79	Steudel	358/11	
	4,156,931	05/29/79	Adelman et al.	364/900	
	4,162,483	07/24/79	Entenman	340/147 R	04/01/77
	4,163,252	07/31/79	Mistry et al.	358/118	
	4,180,709	12/25/79	Cosgrove et al.	179/2 AM	
	4,199,781	04/22/80	Doumit	358/83	
	4,199,791	04/22/80	Corey	360/69	04/17/78
	4,199,809	04/22/80	Pasahow et al.	364/200	
	4,207,524	06/10/80	Purchase	375/22	
	4,214,273	07/22/80	Brown	358/188	
	4,216,497	08/05/80	Ishman et al.	358/84	
	4,222,068	09/09/80	Thompson	358/120	
	4,225,918	09/30/80	Beadle et al.	364/200	03/09/77
	4,246,611	01/20/81	Davies	358/194	
	4,247,947	01/27/81	Miyamoto	455/38	
	4,258,386	03/24/81	Cheung	358/84	
	4,272,784	06/09/81	Saito et al.	358/127	
	4,273,962	06/16/81	Wolfe	179/7.1R	
	4,295,155	10/13/81	Jarger et al.	358/12	
	4,301,542	11/17/81	Weintraub et al.	455/353	
	4,316,217	02/16/82	Rifken	358/86	
	4,318,047	03/02/82	Dawson	328/112	
	4,319,353	03/09/82	Alvarez, III et al.	370/104	02/29/80
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EXAMINER	DATE CONSIDERED
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2611

PTO Serial No. 08/447,447  
Docket No. 5634.0140

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor Application of:  
**John C. Harvey and James W. Cuddihy:**

Serial No.: 08/447,447

Filed: May 23, 1995

For: **SIGNAL PROCESSING APPARATUS  
AND METHODS**

Group Art Unit: 2699

Examiner: FAILE, A.

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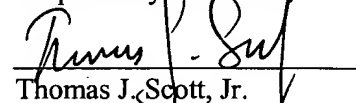
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Respectfully submitted,



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